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Dephosphorisation in biological treatment of human waste - where flocculant is added to solidify phosphorus contents then using ultrafiltration

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Abstract (Basic): JP 63091196 A

Prior to human waste being supplied to a biological reactor, it is introduced into a dephosphorising appts. in which flocculant is added to the waste so as to flocculate and solidify the phosphorus content. The solidified phosphorus contents are sepd. in a manner that resultant liq. contains remaining phosphorus contents which are required for the following biological treatment. The liq. is treated in a biological reactor and sepd. into solid and liq. by ultrafiltration membranes. The resultant sludge is returned back to the biological reactor and part of the sludge is disposed as excess sludge.

Cationic polymer flocculants and ferrous polysulphate are used in combination as the flocculant.

USE/ADVANTAGE - The amt. of suspended solids and organic matters can be reduced in the dephosphorising step. so that the following biological treatment can be carried out more efficiently.

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Derwent Class: D15

International Patent Class (Additional): C02F-001/44; C02F-003/00; C02F-009/00